

Reaction of dialkylphosphorous acids with 2,2-dimethyl-1,3-indandione

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Abstract

1. The reaction of 2,2-dimethyl-1,3-indandione with diethyl- and di-n-butylphosphorous acids in the presence of amines gave 2,2-dimethyl-3-hydroxyindan-1-one-3-diethylphosphonate and 2,2-dimethyl-3-hydroxyindan-1-one-3-di-n-butylphosphonate. 2. The phosphonate-phosphate isomerization of 2,2-dimethyl-3-hydroxyindan-1-one-3-diethylphosphonate to 2,2-dimethylindan-1-one-3-diethylphosphate was detected at room temperature in the presence of amines. © 1976 Plenum Publishing Corporation.

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